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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,168	07/15/2003	Tomoki Kobori	62758-045	5016
20277	7590	12/10/2004	EXAMINER	
MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096			CRUZ, MAGDA	
			ART UNIT	PAPER NUMBER
			2851	

DATE MAILED: 12/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/619,168	Applicant(s) KOBORI ET AL.	
	Examiner Magda Cruz	Art Unit 2851	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/15/2003</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 07/15/2003 has being considered by the examiner.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-4, 7-12 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Hiramatsu.

Hiramatsu (JP 2000-305481) discloses a projector type display apparatus (1) for applying light from a light source to a picture display device and projecting outgoing light (13) from said picture display device onto a screen (4) in an enlarged manner comprising display device controller (11) which controls said picture display device based on an input image signal (18); a camera (2) which captures an image projected on said screen (4); detector (15) which detects an area projected on said screen (4); image size controller (17) which changes, based on detection results from said detector (15), the captured image (i.e. person location) from said camera (2) into a predetermined image size (translation, Detailed Description, paragraph 0023, lines 4-5); and extractor (14, i.e. image pick-up means) which extracts a person area in said captured image the size of which is changed by said image size controller (translation, Detailed Description, paragraphs 0026 and 0028); wherein said display device controller (11) controls so that an area on said image display device corresponding to said person area (5) is substituted by predetermined data (translation, Detailed Description, paragraph 0036); wherein said person area extractor (14) further comprises comparator (12) which compares said captured image signal the size of which is changed with the image signal controlled by said display device controller (translation, Detailed Description, paragraph 0028); further comprising capture timing controller (11) which controls capture timing of said camera (2), wherein said image display device is controlled based on the displayed video signal input to said display device controller (translation, Detailed Description, paragraphs 0026 and 0027) only during a period when said camera (2) captures the image projected onto said screen (4), and said

person area extractor (14) further comprises comparator (16, i.e. decision section) which compares said captured image signal the size of which is changed with said displayed image signal (translation, Detailed Description, paragraph 0028, lines 3-10); wherein said predetermined data is either particular uniform color data, black data or image data having a low intensity level based on said input image signal (translation, Detailed Description, paragraph 0015 and paragraph 0023, lines 5-6); wherein said person area extractor (14) further comprises motion detector (15, i.e. detecting element) which detects a motion area from the captured image data out of the projected area (3); wherein said capture timing controller is configured to determine a capture interval and capture exposure time based on cumulative light intensity for a predetermined time period (translation, Detailed Description, paragraph 0039 and paragraph 0040, lines 1-4).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 5-6 and 13-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hiramatsu (JP 2000-305481) in view of Hiramatsu (US Patent Number 6,829,394 B2).

Hiramatsu (JP 2000-305481) teaches the salient features of the present invention, except a projector type display apparatus wherein said camera is an infrared camera for capturing infrared wavelength components of light, and wherein a comparator compares average values between a plurality of pixels. However, Hiramatsu discloses a projector type display apparatus having a CCD camera (2) and a decision section (16).

Hiramatsu (US Patent Number 6,829,394 B2) discloses a projector type display apparatus wherein said camera (14) is an infrared camera for capturing infrared wavelength components of light (abstract, lines 12-13), and wherein a comparator (126) compares average values between a plurality of pixels (column 8, lines 12-21).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize camera and comparator disclosed by Hiramatsu (US Patent Number 6,829,394 B2) in combination with Hiramatsu's (JP 2000-305481) invention, for the purpose of having an image pick-up means which picks up an image of an image display region (column 1, lines 43-44).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yoneno (EP 1 089 119 A1) discloses a projection system and a projector for imaging a projected image by using an imaging portion.

Furihata et al. (EP 0 947 948 A2) teaches a pointing position detection device, presentation system and method.

Hiramatsu (US 6,798,926 B2) shows a system and method of pointed position detection, presentation system and program.

Hiramatsu (US 6,339,748 B1) discloses a coordinated input system and display apparatus.

Furihata et al. (US 6,512,507 B1) teaches a pointing position detecting device, presentation system and method, and computer-readable medium.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magda Cruz whose telephone number is (571) 272-2114. The examiner can normally be reached on Monday through Thursday 8:00-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JUDY NGUYEN
PRIMARY EXAMINER

Magda Cruz
Patent Examiner
December 8, 2004